

WHAT IS CLAIMED IS:

1 1. A recovery force adjusting device for a cymbal stand having a paddle
2 pivotally connected to a transmission rod, a spring received in a column and having a
3 first distal end securely connected to a bottom distal end of a stop movably received in
4 the column and mounted outside the transmission rod and a second end securely
5 connected to the paddle, the recovery force adjusting device comprising:
6 a handle adapted to be pivotally connected to the cymbal stand;
7 a driving ring movable relative to the column and having a pin adapted to extend
8 through the column and the stop such that movement of the driving ring is able to move
9 the stop;
10 a supporting seat adapted to be securely mounted outside the column and having
11 a cutout defined in the supporting seat and a wedge formed on an inner periphery of the
12 supporting seat;
13 a rotating sleeve rotatably and movably sandwiched between the supporting
14 seat and the driving seat and having a first set of teeth formed on an outer bottom
15 periphery of the rotating sleeve to correspond to yet misalign with the wedge of the
16 supporting seat;
17 means for changing the position of the driving ring as well as the position of the
18 stop; and
19 a recovery spring compressibly sandwiched between the supporting seat and the
20 rotating sleeve to move the rotating sleeve upward relative to the supporting seat so that
21 the movement of the driving ring due to the pivotal movement of the handle allows the
22 upward movement of the rotating sleeve and due to the misalignment relationship
23 between the wedge of a corresponding teeth of the first teeth, sliding movement of the

1 wedge along a slope of the corresponding tooth of the first teeth forces the rotating
2 sleeve to rotate and thus because the position of the driving ring is changed due to the
3 position changing means, a compression force to the spring is adjusted.

4 2. The recovery force adjusting device as claimed in claim 1, wherein the
5 position changing means comprises two extensions formed on the driving ring
6 extending downward to the rotating sleeve, a second set of teeth and a third set of teeth
7 formed on the outer periphery of the rotating sleeve.

8 3. The recovery force adjusting device as claimed in claim 2, wherein the
9 second set of teeth and the third set of teeth are inclined relative to the first set of teeth
10 and opposite to each other.

11 4. The recovery force adjusting device as claimed in claim 2, wherein the
12 position changing means further has two extensions formed on the driving ring and
13 extended downward to the rotating sleeve and opposite to each other to correspond to a
14 respective tooth of the second set of teeth and the third set of teeth.

15 5. The recovery force adjusting device as claimed in claim 3, wherein the
16 position changing means further has two extensions formed on the driving ring and
17 extended downward to the rotating sleeve and opposite to each other to correspond to a
18 respective tooth of the second set of teeth and the third set of teeth.

19 6. The recovery force adjusting device as claimed in claim 1, wherein a slot is
20 adapted to be defined through the column to allow the pin to be movably received in and
21 extended through the slot.

22 7. The recovery force adjusting device as claimed in claim 5, wherein a slot is
23 adapted to be defined through the column to allow the pin to be movably received in and
24 extended through the slot.